

Table 1. Saccharides displayed on the glycan array

Glycan	IUPAC	LINEARCODE®	Common Name
0	p-Nitronhenol	pNP-0	
1	Gal (α)	Aa	
2	Gal (β)	Ab	
3	Gal (β 1-3) GalNAc (α)	Ab3ANa	
4	Gal (β 1-3) GlcNAc (β)	Ab3GNb	
5	Gal (β 1-4) Glc (β)	Ab4Gb	Lactose
6	Gal (β 1-6) Gal (β)	Ab6Ab	
7	GalNAc (α)	ANa	
8	GalNAc (β)	ANb	
9	Fuc (α)	Fa	
10	Fuc (β)	Fb	
11	Glc (α)	Ga	
12	Glc (α 1-4) Glc (α)	Ga4Ga	Maltose
13	Glc (α 1-4) Glc (β)	Ga4Gb	
14	Glc (β)	Gb	
15	Glc (β 1-4) Glc (β)	Gb4Gb	Cellobiose
16	Glc (β 1-4) Glc (β 1-4) Glc (β)	Gb4Gb4Gb	Cellotriose
17	GlcNAc (α)	GNa	
18	GlcNAc (β)	GNb	
19	GlcNAc (β 1-3) GalNAc (α)	GNb3ANa	
20	GlcNAc (β 1-4) GlcNAc (β)	GNb4GNb	Chitobiose
21	L-Rha (α)	Ha	
22	GalA (β)	Lb	
23	Man (α)	Ma	
24	Man (β)	Mb	
25	Neu5Ac (α)	NNa	
26	L-Araf (α)	Ra	
27	GlcA (β)	Ub	
28	X(α)	Xa	
29	X(β)	Xb	
30	Gal (β1-3) [GlcNAc (β1-6)] GalNAc (α)	Ab3(GNb6)ANa	
31	Gal (β 1-4) GlcNAc (α)	Ab4GNa	
32	Gal (α1-3) Gal (β 1-4) GlcNAc (β)	Aa3Ab4GNb	Linear B-2
33	Gal (β1-3) Gal (β1-4)GalNAc (β)	Ab4GNb	
34	Man (β1-4) GlcNAc (β)	Mb4Gb	
35	GlcNAc (β1-6)GalNAc (α)	GNb6ANa	
36	Fuc (α 1-2) Gal (β)	Fa2Ab	
37	Man (α 1-3) Man (α)	Ma3Ma	
38	GlcNAc (β) 6-sulfate	GN[6S]b	
39	Glc (β 1-3) Glc (β)	Gb3Gb	
40	Gal(β) 3-sulfate	A[3S]b	
41	Man (α 1-3) [Man (α1-6)] Man (β)	Ma3(Ma6)Mb	
42	GlcNAc (β 1-3) Gal (α1-4) Glc (β)	GNb3Ab4Gb	Lacto-3
43	Gal (α1-4) Gal (β 1-4) Glc (β)	Aa4Ab4Gb	Pk antigen
44	Man (α 1-6) Man α	Ma6Ma	
45	Man (α 1-2) Man α	Ma2Ma	
46	Dextran		Dextran

47	Mannam		Mannam
48	Xylan		Xylan

Table 2: Fluorescent signals from binding of antibodies to different glycans in CD patients and non CD patients . Glycans are presented in LINEARCODE®.

Patient No.	Clinical condition	239.525	979.509	324.062	28.737	412.186	145.841	595.222	5.407.759	4.677.938	0		
10.004	Crohn's disease	381.122	3.511.076	2.381.922	0	0	0	1.014.289	3.676.579	2.190.867	956.611		
10.005	Crohn's disease	7.641	525.203	13.726	361.139	0	0	0	3.732.911	3.488.820	0		
10.006	Crohn's disease	555.734	62.662	269.512	78.564	42.543	0	48.213	1.091.472	324.492	276.481		
10.007	Crohn's disease	0	0	0	0	0	0	0	2.448.511	1.002.269	0		
10.008	Crohn's disease	0	3,186,273	261,521	0	0	0	0	6,261,036	2,793,801	169,975	80 neg	33
10.009	Crohn's disease	596.715	454.736	328.022	167.316	0	45.866	128.896	3,208,701	874.256	1,180,180		
10.011	Crohn's disease	435.226	2,467,429	0	66,968	0	0	0	4,269,038	918,204	0		
10.012	Crohn's disease	0	27,402	214,518	0	0	0	0	372,869	0	3,682		
10.013	Crohn's disease	91.743	27.236	51.842	0	83.080	0	0	592.410	263.911	30.891		
10.015	Crohn's disease	1,436,731	1,817,947	2,540,214	303,550	0	0	257,538	6,989,275	2,571,728	416,510		
10.016	Crohn's disease	906.573	1,994,899	1,971,018	374,644	84,710	30,478	0	7,307,550	2,000,821	434,306		
10.018	Crohn's disease	521.021	0	147,106	0	0	0	0	609,892	9,322	265,548		
10.021	Crohn's disease	554.365	1,317,083	1,000,896	42,976	0	0	0	3,691,841	1,126,417	0		
10.025	Crohn's disease	885.575	6,891,638	1,217,531	364,637	188,355	109,598	452,964	7,130,311	0	796,295	49 neg	54
10.026	Crohn's disease	539.816	2,154,175	961,447	327,688	153,606	123,522	257,506	3,708,910	221,962	511,471		
10.027	Crohn's disease	113.583	3,559,430	1,182,752	66,965	0	84,390	224,520	4,915,018	1,339,734	84,567		
10.028	Crohn's disease	0	1,825,768	168,320	128,581	0	0	0	602,554	0	0		
10.031	Crohn's disease	20.260	371,507	159,225	0	57,754	0	328,085	5,299,212	4,173,769	0		
10.033	Crohn's disease	725.599	344,750	300,943	340,134	19,046	0	34,499	8,102,888	937,019	173,028	108 neg	43
10.034	Crohn's disease	227.314	87.267	850.766	0	9,877	0	35,552	4,729,753	506,773	0		
10.036	Crohn's disease	391.063	1,425,195	221,359	185,257	479,128	155,365	279,542	4,912,482	967,270	270,805		
10.041	Crohn's disease	2,447,847	7,289,442	1,196,749	554,440	1,362,815	1,131,592	1,065,753	5,218,211	955,444	1,054,887		
10.042	Crohn's disease	3,075,165	4,137,076	4,847,786	1,141,538	657,599	790,941	1,710,324	2,614,548	129,079	0		
10.043	Crohn's disease	228.780	5,724,798	5,015,656	0	0	0	1,436,369	4,450,715	0	3,526,456		
10.047	Crohn's disease	889.158	5,545,432	762,145	348,988	11,887	0	15,368	3,536,621	0	261,080		
10.059	Crohn's disease	1,111,889	3,086,078	998,236	258,305	284,314	365,078	320,510	2,812,932	259,435	0	9 neg	18
10.060	Crohn's disease	3,488,594	5,107,549	3,189,052	861,636	66,108	866,832	0	4,567,274	0	175,351		
10.061	Crohn's disease	302.526	6,708,583	403,578	63,045	116,816	84,505	12,868	737,419	0	829,159		
10.062	Crohn's disease	1,970,248	1,880,984	1,712,647	592,484	479,672	91,360	267,315	5,190,198	4,657,297	26,270		
10.064	Crohn's disease	923.893	1,722,429	2,223,960	458,720	1,300,332	2,380,047	1,161,372	6,597,714	3,696,434	687,255		
10.067	Crohn's disease	679.588	2,850,072	1,376,044	0	325,777	929,191	583,323	1,990,817	0	1,478,295		
10.069	Crohn's disease	412.474	241.622	307.409	256.886	501.122	1,525.473	961.710	29.236	23.306	800.316		
10.071	Crohn's disease	1,182,752	3,578,688	708,939	0	389,375	289,186	1,189,325	3,463,114	2,627,120	711,760		
10.073	Crohn's disease	547.155	2,551,776	1,018,813	293,958	1,159,788	1,611,290	1,181,541	6,830,915	6,178,401	1,576,654	72 neg	113
10.074	Crohn's disease	1,849,657	1,705,604	196,196	150,342	1,020,256	1,307,139	952,214	4,060,059	499,170	608,101	43 neg	18
10.075	Crohn's disease	4,173,024	7,209,245	3,339,808	80,395	1,048,834	749,060	2,574,514	5,247,571	5,264,066	2,824,132		
10.077	Crohn's disease	678.576	1,376,567	658,444	675.875	420.437	209.185	586.814	228.636	417.861	302.912	15 neg	5
10.078	Crohn's disease	862.494	2,324,221	2,518,629	740,309	794,975	675.514	725.854	6,306,500	1,744,354	1,191,273	89 neg	104
10.081	Crohn's disease	1,856,749	1,868,774	1,456,600	365,947	851,804	125,827	824,214	3,758,249	4,236,189	471,166	39 neg	17
10.089	Crohn's disease	3,084,860	1,580,904	4,839,888	210,753	483,336	0	502,368	1,797,822	321,993	726,668	12 neg	29
10.090	Crohn's disease	759.279	5,640,050	5,833,141	215,327	908,572	122,830	250,375	6,317,456	736,689	161,181		
10.094	Crohn's disease	2,153,522	2,067,775	2,215,576	894,280	1,237,060	930,156	491,528	4,086,131	997,472	954,849		
10.095	Crohn's disease	4,905,595	4,327,530	3,480,322	573,036	797,142	379,977	393,270	6,473,836	1,187,706	720,792		
10.102	Crohn's disease	445.821	378.722	797.078	161.173	245.130	126.639	88.512	115.577	131.432	475.333		
10.051	No digestive disease	549.212	526.443	198.870	947.346	0	0	191.673	1,794,907	0	0		
10.052	No digestive disease	560.759	317.476	387.236	33.889	5.587	0	58.482	356.263	396.032	0		
10.053	No digestive disease	57.858	242.565	0	50.803	0	0	37.486	533.405	336.286	25.865		
10.054	No digestive disease	107.351	78.564	408.109	95.010	0	0	0	594.824	1,014,501	0		
10.059	Anal fissure	349.679	441.239	0	0	0	0	0	2,354,312	278.946	0		
10.066	Proctitis/Psoriasis	149.491	174.695	197.436	99.518	117.444	0	74.490	1,088,575	844.179	97.181		
10.080	No digestive disease	948.567	1,266,954	885,057	67.661	0	0	0	1,159,558	1,193,312	0		
10.082	No digestive disease	78.069	1,379,223	710.595	0	0	0	0	4,238,190	1,678,410	0		
10.003	Ulcerative colitis	363.362	312,940	168.368	347.208	50,843	0	0	525.545	361,718	258.224		
10.020	Ulcerative colitis	0	2,703,085	0	0	0	0	0	1,106,666	541,292	0		
10.022	Ulcerative colitis	340.259	1,732,725	2,209,455	67.238	0	0	0	4,272,493	2,348,955	0	40 neg	18
10.023	Ulcerative colitis	30.614	1,238,882	20,526	0	267,814	0	0	308,161	93,567	50,812		
10.024	Ulcerative colitis	159.550	493,733	0	0	0	0	0	5,033,204	1,416,782	124,358		
10.030	Ulcerative colitis	1.650	6.963	98.296	0	71,007	0	0	1,227,240	606,565	152,946		
10.039	Ulcerative colitis	0	546.432	2,775,860	0	0	0	0	1,588,845	0	186,636		
10.040	Ulcerative colitis	0	371.648	33.848	0	0	0	0	2,838,360	744,866	1,110,942		
10.044	Ulcerative colitis	543.352	108.535	551,977	0	274,235	0	19,948	558,985	926,919	0		
10.050	Ulcerative colitis	1,182,838	430,129	605,578	274,541	419,442	118,678	313,631	1,537,328	356,345	563,448		
10.065	Ulcerative colitis	977.372	851,962	931,083	304,212	128,015	133,662	314,068	1,911,525	957,048	627,415		
10.069	Ulcerative colitis	169.349	133,683	746,781	97,734	0	0	0	1,281,892	777,260	25,579	8 neg	8
10.072	Ulcerative colitis	120.534	86,949	188,860	0	68,365	6,299	120,392	3,436,295	268,387	96,768		
10.079	Ulcerative colitis	336.039	3,441,678	1,186,596	191,939	103,676	48,476	34,897	1,513,149	432,879	0		
10.084	Ulcerative colitis	446.430	1,574,353	2,292,321	136,761	184,468	22,962	21,668	1,086,196	112,154	101,127		
10.086	Ulcerative colitis	161.202	379,003	417,320	36,800	0	0	0	1,699,125	588,760	47,781		
10.087	Ulcerative colitis	343.225	156,547	305,446	114,600	137,647	57,993	240,234	1,047,544	110,275	100,383	6 neg	19
10.096	Ulcerative colitis	413.406	1,461,919	550,439	94,137	54,108	0	34,617	4,957,039	186,956	106,274		
10.097	Ulcerative colitis	125.681	612,357	622,628	46,173	0	0	0	1,426,371	167,573	10,386		
Cutoffs in percentages													
65		357.204	582.696	614.956	96.508	70.268	0	34.771	1.649.499	682.641	103.958		
75		445.973	1.224.157	759.355	120.140	120.086	1.575	62.484	2.022.259	864.864	131.437		
85		548.919	1.457.784	928.783	190.400	182.126	47.200	118.798	3.406.400	1.011.628	254.645		
90		677.098	1.621.865	1.433.453	263.442	251.875	76.199	236.241	4.248.481	1.260.353	502.187		
98		1.0707.											

in CD patients and non CD patients. Glycans are presented in LINEARCODE®.

Patient No.	Clinical condition	lgM_A3S1b	lgM_A3S2b	lgM_A3S3b	lgM_A3S4b	lgM_A3S5b	lgM_A3S6b	lgM_A3S7b	lgM_A3S8b	lgM_A3S9b	lgM_A3S10b	lgM_A3S11b	lgM_A3S12b	lgM_A3S13b	lgM_A3S14b	lgM_A3S15b	lgM_A3S16b	lgM_A3S17b	lgM_A3S18b	lgM_A3S19b	lgM_A3S20b	lgM_A3S21b	lgM_A3S22b	lgM_A3S23b	lgM_A3S24b	lgM_A3S25b	lgM_A3S26b	lgM_A3S27b	lgM_A3S28b	lgM_A3S29b	lgM_A3S30b	lgM_A3S31b	lgM_A3S32b	lgM_A3S33b	lgM_A3S34b	lgM_A3S35b	lgM_A3S36b	lgM_A3S37b	lgM_A3S38b	lgM_A3S39b	lgM_A3S40b	lgM_A3S41b	lgM_A3S42b	lgM_A3S43b	lgM_A3S44b	lgM_A3S45b	lgM_A3S46b	lgM_A3S47b	lgM_A3S48b	lgM_A3S49b	lgM_A3S50b	lgM_A3S51b	lgM_A3S52b	lgM_A3S53b	lgM_A3S54b	lgM_A3S55b	lgM_A3S56b	lgM_A3S57b	lgM_A3S58b	lgM_A3S59b	lgM_A3S60b	lgM_A3S61b	lgM_A3S62b	lgM_A3S63b	lgM_A3S64b	lgM_A3S65b	lgM_A3S66b	lgM_A3S67b	lgM_A3S68b	lgM_A3S69b	lgM_A3S70b	lgM_A3S71b	lgM_A3S72b	lgM_A3S73b	lgM_A3S74b	lgM_A3S75b	lgM_A3S76b	lgM_A3S77b	lgM_A3S78b	lgM_A3S79b	lgM_A3S80b	lgM_A3S81b	lgM_A3S82b	lgM_A3S83b	lgM_A3S84b	lgM_A3S85b	lgM_A3S86b	lgM_A3S87b	lgM_A3S88b	lgM_A3S89b	lgM_A3S90b	lgM_A3S91b	lgM_A3S92b	lgM_A3S93b	lgM_A3S94b	lgM_A3S95b	lgM_A3S96b	lgM_A3S97b	lgM_A3S98b	lgM_A3S99b	lgM_A3S100b	lgM_A3S101b	lgM_A3S102b	lgM_A3S103b	lgM_A3S104b	lgM_A3S105b	lgM_A3S106b	lgM_A3S107b	lgM_A3S108b	lgM_A3S109b	lgM_A3S110b	lgM_A3S111b	lgM_A3S112b	lgM_A3S113b	lgM_A3S114b	lgM_A3S115b	lgM_A3S116b	lgM_A3S117b	lgM_A3S118b	lgM_A3S119b	lgM_A3S120b	lgM_A3S121b	lgM_A3S122b	lgM_A3S123b	lgM_A3S124b	lgM_A3S125b	lgM_A3S126b	lgM_A3S127b	lgM_A3S128b	lgM_A3S129b	lgM_A3S130b	lgM_A3S131b	lgM_A3S132b	lgM_A3S133b	lgM_A3S134b	lgM_A3S135b	lgM_A3S136b	lgM_A3S137b	lgM_A3S138b	lgM_A3S139b	lgM_A3S140b	lgM_A3S141b	lgM_A3S142b	lgM_A3S143b	lgM_A3S144b	lgM_A3S145b	lgM_A3S146b	lgM_A3S147b	lgM_A3S148b	lgM_A3S149b	lgM_A3S150b	lgM_A3S151b	lgM_A3S152b	lgM_A3S153b	lgM_A3S154b	lgM_A3S155b	lgM_A3S156b	lgM_A3S157b	lgM_A3S158b	lgM_A3S159b	lgM_A3S160b	lgM_A3S161b	lgM_A3S162b	lgM_A3S163b	lgM_A3S164b	lgM_A3S165b	lgM_A3S166b	lgM_A3S167b	lgM_A3S168b	lgM_A3S169b	lgM_A3S170b	lgM_A3S171b	lgM_A3S172b	lgM_A3S173b	lgM_A3S174b	lgM_A3S175b	lgM_A3S176b	lgM_A3S177b	lgM_A3S178b	lgM_A3S179b	lgM_A3S180b	lgM_A3S181b	lgM_A3S182b	lgM_A3S183b	lgM_A3S184b	lgM_A3S185b	lgM_A3S186b	lgM_A3S187b	lgM_A3S188b	lgM_A3S189b	lgM_A3S190b	lgM_A3S191b	lgM_A3S192b	lgM_A3S193b	lgM_A3S194b	lgM_A3S195b	lgM_A3S196b	lgM_A3S197b	lgM_A3S198b	lgM_A3S199b	lgM_A3S200b	lgM_A3S201b	lgM_A3S202b	lgM_A3S203b	lgM_A3S204b	lgM_A3S205b	lgM_A3S206b	lgM_A3S207b	lgM_A3S208b	lgM_A3S209b	lgM_A3S210b	lgM_A3S211b	lgM_A3S212b	lgM_A3S213b	lgM_A3S214b	lgM_A3S215b	lgM_A3S216b	lgM_A3S217b	lgM_A3S218b	lgM_A3S219b	lgM_A3S220b	lgM_A3S221b	lgM_A3S222b	lgM_A3S223b	lgM_A3S224b	lgM_A3S225b	lgM_A3S226b	lgM_A3S227b	lgM_A3S228b	lgM_A3S229b	lgM_A3S230b	lgM_A3S231b	lgM_A3S232b	lgM_A3S233b	lgM_A3S234b	lgM_A3S235b	lgM_A3S236b	lgM_A3S237b	lgM_A3S238b	lgM_A3S239b	lgM_A3S240b	lgM_A3S241b	lgM_A3S242b	lgM_A3S243b	lgM_A3S244b	lgM_A3S245b	lgM_A3S246b	lgM_A3S247b	lgM_A3S248b	lgM_A3S249b	lgM_A3S250b	lgM_A3S251b	lgM_A3S252b	lgM_A3S253b	lgM_A3S254b	lgM_A3S255b	lgM_A3S256b	lgM_A3S257b	lgM_A3S258b	lgM_A3S259b	lgM_A3S260b	lgM_A3S261b	lgM_A3S262b	lgM_A3S263b	lgM_A3S264b	lgM_A3S265b	lgM_A3S266b	lgM_A3S267b	lgM_A3S268b	lgM_A3S269b	lgM_A3S270b	lgM_A3S271b	lgM_A3S272b	lgM_A3S273b	lgM_A3S274b	lgM_A3S275b	lgM_A3S276b	lgM_A3S277b	lgM_A3S278b	lgM_A3S279b	lgM_A3S280b	lgM_A3S281b	lgM_A3S282b	lgM_A3S283b	lgM_A3S284b	lgM_A3S285b	lgM_A3S286b	lgM_A3S287b	lgM_A3S288b	lgM_A3S289b	lgM_A3S290b	lgM_A3S291b	lgM_A3S292b	lgM_A3S293b	lgM_A3S294b	lgM_A3S295b	lgM_A3S296b	lgM_A3S297b	lgM_A3S298b	lgM_A3S299b	lgM_A3S300b	lgM_A3S301b	lgM_A3S302b	lgM_A3S303b	lgM_A3S304b	lgM_A3S305b	lgM_A3S306b	lgM_A3S307b	lgM_A3S308b	lgM_A3S309b	lgM_A3S310b	lgM_A3S311b	lgM_A3S312b	lgM_A3S313b	lgM_A3S314b	lgM_A3S315b	lgM_A3S316b	lgM_A3S317b	lgM_A3S318b	lgM_A3S319b	lgM_A3S320b	lgM_A3S321b	lgM_A3S322b	lgM_A3S323b	lgM_A3S324b	lgM_A3S325b	lgM_A3S326b	lgM_A3S327b	lgM_A3S328b	lgM_A3S329b	lgM_A3S330b	lgM_A3S331b	lgM_A3S332b	lgM_A3S333b	lgM_A3S334b	lgM_A3S335b	lgM_A3S336b	lgM_A3S337b	lgM_A3S338b	lgM_A3S339b	lgM_A3S340b	lgM_A3S341b	lgM_A3S342b	lgM_A3S343b	lgM_A3S344b	lgM_A3S345b	lgM_A3S346b	lgM_A3S347b	lgM_A3S348b	lgM_A3S349b	lgM_A3S350b	lgM_A3S351b	lgM_A3S352b	lgM_A3S353b	lgM_A3S354b	lgM_A3S355b	lgM_A3S356b	lgM_A3S357b	lgM_A3S358b	lgM_A3S359b	lgM_A3S360b	lgM_A3S361b	lgM_A3S362b	lgM_A3S363b	lgM_A3S364b	lgM_A3S365b	lgM_A3S366b	lgM_A3S367b	lgM_A3S368b	lgM_A3S369b	lgM_A3S370b	lgM_A3S371b	lgM_A3S372b	lgM_A3S373b	lgM_A3S374b	lgM_A3S375b	lgM_A3S376b	lgM_A3S377b	lgM_A3S378b	lgM_A3S379b	lgM_A3S380b	lgM_A3S381b	lgM_A3S382b	lgM_A3S383b	lgM_A3S384b	lgM_A3S385b	lgM_A3S386b	lgM_A3S387b	lgM_A3S388b	lgM_A3S389b	lgM_A3S390b	lgM_A3S391b	lgM_A3S392b	lgM_A3S393b	lgM_A3S394b	lgM_A3S395b	lgM_A3S396b	lgM_A3S397b	lgM_A3S398b	lgM_A3S399b	lgM_A3S400b	lgM_A3S401b	lgM_A3S402b	lgM_A3S403b	lgM_A3S404b	lgM_A3S405b	lgM_A3S406b	lgM_A3S407b	lgM_A3S408b	lgM_A3S409b	lgM_A3S410b	lgM_A3S411b	lgM_A3S412b	lgM_A3S413b	lgM_A3S414b	lgM_A3S415b	lgM_A3S416b	lgM_A3S417b	lgM_A3S418b	lgM_A3S419b	lgM_A3S420b	lgM_A3S421b	lgM_A3S422b	lgM_A3S423b	lgM_A3S424b	lgM_A3S425b	lgM_A3S426b	lgM_A3S427b	lgM_A3S428b	lgM_A3S429b	lgM_A3S430b	lgM_A3S431b	lgM_A3S432b	lgM_A3S433b	lgM_A3S434b	lgM_A3S435b	lgM_A3S436b	lgM_A3S437b	lgM_A3S438b	lgM_A3S439b	lgM_A3S440b	lgM_A3S441b	lgM_A3S442b	lgM_A3S443b	lgM_A3S444b	lgM_A3S445b	lgM_A3S446b	lgM_A3S447b	lgM_A3S448b	lgM_A3S449b	lgM_A3S450b	lgM_A3S451b	lgM_A3S452b	lgM_A3S453b	lgM_A3S454b	lgM_A3S455b	lgM_A3S456b	lgM_A3S457b	lgM_A3S458b	lgM_A3S459b	lgM_A3S460b	lgM_A3S461b	lgM_A3S462b	lgM_A3S463b	lgM_A3S464b	lgM_A3S465b	lgM_A3S466b	lgM_A3S467b	lgM_A3S468b	lgM_A3S469b	lgM_A3S470b	lgM_A3S471b	lgM_A3S472b	lgM_A3S473b	lgM_A3S474b	lgM_A3S475b	lgM_A3S476b	lgM_A3S477b	lgM_A3S478b	lgM_A3S479b	lgM_A3S480b	lgM_A3S481b	lgM_A3S482b	lgM_A3S483b	lgM_A3S484b	lgM_A3S485b	lgM_A3S486b	lgM_A3S487b	lgM_A3S488b	lgM_A3S489b	lgM_A3S490b	lgM_A3S491b	lgM_A3S492b	lgM_A3S493b	lgM_A3S494b	lgM_A3S495b	lgM_A3S496b	lgM_A3S497b	lgM_A3S498b	lgM_A3S499b	lgM_A3S500b	lgM_A3S501b	lgM_A3S502b	lgM_A3S503b	lgM_A3S504b	lgM_A3S505b	lgM_A3S506b	lgM_A3S507b	lgM_A3S508b	lgM_A3S509b	lgM_A3S510b	lgM_A3S511b	lgM_A3S512b	lgM_A3S513b	lgM_A3S514b	lgM_A3S515b	lgM_A3S516b	lgM_A3S517b	lgM_A3S518b	lgM_A3S519b	lgM_A3S520b	lgM_A3S521b	lgM_A3S522b	lgM_A3S523b	lgM_A3S524b	lgM_A3S525b	lgM_A3S526b	lgM_A3S527b	lgM_A3S528b	lgM_A3S529b	lgM_A3S530b	lgM_A3S531b	lgM_A3S532b	lgM_A3S533b	lgM_A3S534b	lgM_A3S535b	lgM_A3S536b	lgM_A3S537b	lgM_A3S538b	lgM_A3S539b	lgM_A3S540b	lgM_A3S541b	lgM_A3S542b	lgM_A3S543b	lgM_A3S544b	lgM_A3S545b	lgM_A3S546b	lgM_A3S547b	lgM_A3S548b	lgM_A3S549b	lgM_A3S550b	lgM_A3S551b	lgM_A3S552b	lgM_A3S553b	lgM_A3S554b	lgM_A3S555b	lgM_A3S556b	lgM_A3S557b	lgM_A3S558b	lgM_A3S559b	lgM_A3S560b	lgM_A3S561b	lgM_A3S562b	lgM_A3S563b	lgM_A3S564b	lgM_A3S565b	lgM_A3S566b	lgM_A3S567b	lgM_A3S568b	lgM_A3S569b	lgM_A3S570b	lgM_A3S571b	lgM_A3S572b	lgM_A3S573b	lgM_A3S574b	lgM_A3S575b	lgM_A3S576b	lgM_A3S577b	lgM_A3S578b	lgM_A3S579b	lgM_A3S580b	lgM_A3S581b	lgM_A3S582b	lgM_A3S583b	lgM_A3S584b	lgM_A3S585b	lgM_A3S586b	lgM_A3S587b	lgM_A3S588b	lgM_A3S589b	lgM_A3S590b	lgM_A3S591b	lgM_A3S592b	lgM_A3S593b	lgM_A3S594b	lgM_A3S595b	lgM_A3S596b	lgM_A3S597b	lgM_A3S598b	lgM_A3S599b	lgM_A3S600b	lgM_A3S601b	lgM_A3S602b	lgM_A3S603b	lgM_A3S604b	lgM_A3S605b	lgM_A3S606b	lgM_A3S607b	lgM_A3S608b	lgM_A3S609b	lgM_A3S610b	lgM_A3S611b	lgM_A3S612b	lgM_A3S613b	lgM_A3S614b	lgM_A3S615b	lgM_A3S616b	lgM_A3S617b	lgM_A3S618b	lgM_A3S619b	lgM_A3S620b	lgM_A3S621b	lgM_A3S622b	lgM_A3S623b	lgM_A3S624b	lgM_A3S625b	lgM_A3S626b	lgM_A3S627b	lgM_A3S628b	lgM_A3S629b	lgM_A3S630b	lgM_A3S631b	lgM_A3S632b	lgM_A3S633b	lgM_A3S634b	lgM_A3S635b	lgM_A3S636b	lgM_A3S637b	lgM_A3S638b	lgM_A3S639b	lgM_A3S640b	lgM_A3S641b	lgM_A3S642b	lgM_A3S643b	lgM_A3S644b	lgM_A3S645b	lgM_A3S646b	lgM_A3S647b	lgM_A3S648b	lgM_A3S649b	lgM_A3S650b	lgM_A3S651b	lgM_A3S652b	lgM_A3S653b	lgM_A3S654b	lgM_A3S655b	lgM_A3S656b	lgM_A3S657b	lgM_A3S658b	lgM_A3S659b	lgM_A3S660b	lgM_A3S661b	lgM_A3S662b	lgM_A3S663b	lgM_A3S664b	lgM_A3S665b	lgM_A3S666b	lgM_A3S667b	lgM_A3S668b	lgM_A3S669b	lgM_A3S670b	lgM_A3S671b	lgM_A3S672b	lgM_A3S673b	lgM_A3S674b	lgM_A3S675b	lgM_A3S676b	lgM_A3S677b	lgM_A3S678b	lgM_A3S679b	lgM_A3S680b	lgM_A3S681b	lgM_A3S682b	lgM_A3S683b	lgM_A3S684b	lgM_A3S685b	lgM_A3S686b	lgM_A3S687b	lgM_A3S688b	lgM_A3S689b	lgM_A3S690b	lgM_A3S691b	lgM_A3S692b	lgM_A3S693b	lgM_A3S694b	lgM_A3S695b	lgM_A3S696b	lgM_A3S697b	lgM_A3S698b	lgM_A3S699b	lgM_A3S700b	lgM_A3S701b	lgM_A3S702b	lgM_A3S703b	lgM_A3S704b	lgM_A3S705b	lgM_A3S706b	lgM_A3S707b	lgM_A3S708b	lgM_A3S709b	lgM_A3S710b	lgM_A3S711b	lgM_A3S712b	lgM_A3S713b	lgM_A3S714b	lgM_A3S715b	lgM_A3S716b	lgM_A3S717b	lgM_A3S718b	lgM_A3S719b	lgM_A3S720b	lgM_A3S721b	lgM_A3S722b	lgM_A3S723b	lgM_A3S724b	lgM_A3S725b	lgM_A3S726b	lgM_A3S727b	lgM_A3S728b	lgM_A3S729b	lgM_A3S730b	lgM_A3S731b	lgM_A3S732b	lgM_A3S733b	lgM_A3S734b	lgM_A3S735b	lgM_A3S736b	lgM_A3S737b	lgM_A3S738b	lgM_A3S739b	lgM_A3S740b	lgM_A3S741b	lgM_A3S742b	lgM_A3S743b	lgM_A3S744b	lgM_A3S745b	lgM_A3S746b	lgM_A3S747b	lgM_A3S748b	lgM_A3S749b	lgM_A3S750b	lgM_A3S751b	lgM_A3S752b	lgM_A3S753b	lgM_A3S754b	lgM_A3S755b	lgM_A3S756b	lgM_A3S757b	lgM_A3S758b	lgM_A3S759b	lgM_A3S760b	lgM_A3S761b	lgM_A3S762b	lgM_A3S763b	lgM_A3S764b	lgM_A3S765b	lgM_A3S766b	lgM_A3S767b	lgM_A3S768b	lgM_A3S769b	lgM_A3S770b	lgM_A3S771b	lgM_A3S772b	lgM_A3S773b	lgM_A3S774b	lgM_A3S775b	lgM_A3S776b	lgM_A3S777b	lgM_A3S778b	lgM_A3S779b	lgM_A3S780b	lgM_A3S781b	lgM_A3S782b	lgM_A3S783b	lgM_A3S784b	lgM_A3S785b	lgM_A3S786b	lgM_A3S787b	lgM_A3S788b	lgM_A3S789b	lgM_A3S790b	lgM_A3S791b	lgM_A3S792b	lgM_A3S793b	lgM_A3S794b	lgM_A3S795b	lgM_A3S796b	lgM_A3S797b	lgM_A3S798b	lgM_A3S799b	lgM_A3S800b	lgM_A3S801b	lgM_A3S802b	lgM_A3S803b	lgM_A3S804b	lgM_A3S805b	lgM_A3S806b	lgM_A3S807b	lgM_A3S808b	lgM_A3S809b	lgM_A3S810b	lgM_A3S811b	lgM_A3S812b	lgM_A3S813b	lgM_A3S814b	lgM_A3S815b	lgM_A3S816b	lgM_A3S817b	lgM_A3S818b	lgM_A3S819b	lgM_A3S820b	lgM_A3S821b	lgM_A3S822b	lgM_A3S823b	lgM_A3S824b	lgM_A3S825b	lgM_A3S826b	lgM_A3S827b	lgM_A3S828b	lgM_A3S829b	lgM_A3S830b	lgM_A3S831b	lgM_A3S832b	lgM_A3S833b	lgM_A3S834b	lgM_A3S835b	lgM_A3S836b	lgM_A3S837b	lgM_A3S838b	lgM_A3S839b	lgM_A3S840b	lgM_A3S841b	lgM_A3S842b	lgM_A3S843b	lgM_A3S844b	lgM_A3S845b	lgM_A3S846b	lgM_A3S847b	lgM_A3S848b	lgM_A3S849b	lgM_A3S850b	lgM_A3S851b	lgM_A3S852b	lgM_A3S853b	lgM_A3S854b	lgM_A3S855b	lgM_A3S856b	lgM_A3S857b	lgM_A3S858b	lgM_A3S859b	lgM_A3S860b	lgM_A3S861b	lgM_A3S862b	lgM_A3S863b	lgM_A3S864b	lgM_A3S865b	lgM_A3S866b	lgM_A3S867b	lgM_A3S868b	lgM_A3S869b	lgM_A3S870b	lgM_A3S871b	lgM_A3S872b	lgM_A3S873b	lgM_A3S874b	lgM_A3S875b	lgM_A3S876b	lgM_A3S877b	lgM_A3S878b	lgM_A3S879b	lgM_A3S880b	lgM_A3S881b	lgM_A3S882b	lgM_A3S883b	lgM_A3S884b	lgM_A3S885b	lgM_A3S886b	lgM_A3S887b	lgM_A3S888b	lgM_A3S889b	lgM_A3S890b	lgM_A3S891b
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Table 4 : Specificity and sensitivity of the different IgG anti glycans for differentiation between CD and other digestive diseases using different cut-off values. The cutoff values for each glycans were set as the 89th percentiles of the other digestive disease group. Glycans are presented in linear code.

Cut-off level		Anti Glycan IgG antibodies									
		Gb	Gb3Gb	Gb4Gb	GN[6S]b	Ma	Ma3(Ma6)Mb	Ma3Ma	Mannan	Xylan	Ma2Ma
65 percentile of non CD	Sensitivity for CD %	76	73	62	62	58	60	71	78	58	71
	Specificity for CD %	70	63	67	70	67	78	70	67	63	67
75 percentile of non CD	Sensitivity for CD %	62	71	58	60	71	60	64	73	62	71
	Specificity for CD %	74	74	78	78	52	78	78	74	74	78
85 percentile of non CD	Sensitivity for CD %	56	64	51	49	49	56	62	67	40	62
	Specificity for CD %	81	81	81	81	85	85	81	81	81	85
90 percentile of non CD	Sensitivity for CD %	49	62	33	42	44	56	60	47	36	40
	Specificity for CD %	89	89	89	89	89	93	89	89	89	89

Table 5: The sensitivity, specificity , True Positives (TP), True Negative (TN), False Positives (FP), and False Negatives (FN) , and Positive Predictive Value (PPV) in different cut-of values for differentiation between CD and other digestive disease according to the level of Anti-Glc (β 1-3) Glc (β) IgG.

IgG Gb3Gb (abnormals above cut-off)	Sensitivity	Specificity	TP	TN	FP	FN	PPV
-	100.0%	0.0%	45	0	27	0	62.5
0	95.6%	0.0%	43	0	27	2	61.43
6,963	95.6%	3.7%	43	1	26	2	62.32
27,235	93.3%	3.7%	42	1	26	3	61.76
27,402	91.1%	3.7%	41	1	26	4	61.19
62,662	88.9%	3.7%	40	1	26	5	60.61
78,554	88.9%	7.4%	40	2	25	5	61.54
86,949	88.9%	11.1%	40	3	24	5	62.5
87,267	86.7%	11.1%	39	3	24	6	61.9
108,535	86.7%	14.8%	39	4	23	6	62.9
133,683	86.7%	18.5%	39	5	22	6	63.93
156,547	86.7%	22.2%	39	6	21	6	65
174,695	86.7%	25.9%	39	7	20	6	66.1
241,622	84.4%	25.9%	38	7	20	7	65.52
242,565	84.4%	29.6%	38	8	19	7	66.67
312,940	84.4%	33.3%	38	9	18	7	67.86
317,476	84.4%	37.0%	38	10	17	7	69.09
344,750	82.2%	37.0%	37	10	17	8	68.52
371,507	80.0%	37.0%	36	10	17	9	67.92
371,648	80.0%	40.7%	36	11	16	9	69.23
378,722	77.8%	40.7%	35	11	16	10	68.63
379,003	77.8%	44.4%	35	12	15	10	70
430,129	77.8%	48.1%	35	13	14	10	71.43
441,239	77.8%	51.9%	35	14	13	10	72.92
454,736	75.6%	51.9%	34	14	13	11	72.34
489,733	75.6%	55.6%	34	15	12	11	73.91
525,203	73.3%	55.6%	33	15	12	12	73.33
526,443	73.3%	59.3%	33	16	11	12	75
646,432	73.3%	63.0%	33	17	10	12	76.74
612,367	73.3%	66.7%	33	18	9	12	78.57
651,962	73.3%	70.4%	33	19	8	12	80.49
979,509	71.1%	70.4%	32	19	8	13	80
1,209,892	71.1%	74.1%	32	20	7	13	82.05
1,266,954	71.1%	77.8%	32	21	6	13	84.21
1,317,083	68.9%	77.8%	31	21	6	14	83.78
1,376,957	66.7%	77.8%	30	21	6	15	83.33
1,379,223	66.7%	81.5%	30	22	5	15	85.71
1,425,185	64.4%	81.5%	29	22	5	16	85.29
1,461,919	64.4%	85.2%	29	23	4	16	87.88
1,560,904	62.2%	85.2%	28	23	4	17	87.5
1,574,353	62.2%	88.9%	28	24	3	17	90.32
1,705,604	60.0%	88.9%	27	24	3	18	90
1,722,429	57.8%	88.9%	26	24	3	19	89.66
1,732,725	57.8%	92.6%	26	25	2	19	92.86
1,817,947	55.6%	92.6%	25	25	2	20	92.59
1,825,768	53.3%	92.6%	24	25	2	21	92.31
1,869,774	51.1%	92.6%	23	25	2	22	92
1,880,984	48.9%	92.6%	22	25	2	23	91.67
1,994,899	46.7%	92.6%	21	25	2	24	91.3
2,067,775	44.4%	92.6%	20	25	2	25	90.91
2,154,175	42.2%	92.6%	19	25	2	26	90.48
2,324,221	40.0%	92.6%	18	25	2	27	90
2,467,429	37.8%	92.6%	17	25	2	28	89.47
2,551,776	35.6%	92.6%	16	25	2	29	88.89
2,703,085	35.6%	96.3%	16	26	1	29	94.12
2,850,072	33.3%	96.3%	15	26	1	30	93.75
3,096,078	31.1%	96.3%	14	26	1	31	93.33
3,186,273	28.9%	96.3%	13	26	1	32	92.86
3,441,678	28.9%	100.0%	13	27	0	32	100
3,511,076	26.7%	100.0%	12	27	0	33	100
3,559,430	24.4%	100.0%	11	27	0	34	100
3,578,889	22.2%	100.0%	10	27	0	35	100
4,137,076	20.0%	100.0%	9	27	0	36	100
4,327,530	17.8%	100.0%	8	27	0	37	100
5,107,549	15.6%	100.0%	7	27	0	38	100
5,545,432	13.3%	100.0%	6	27	0	39	100
5,640,050	11.1%	100.0%	5	27	0	40	100
5,724,798	8.9%	100.0%	4	27	0	41	100
6,708,583	6.7%	100.0%	3	27	0	42	100
6,891,638	4.4%	100.0%	2	27	0	43	100
7,209,245	2.2%	100.0%	1	27	0	44	100
7,299,442	0.0%	100.0%	0	27	0	45	####